CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 78-23

ORDER RESCINDING THIS BOARD'S RESOLUTION NO. 136 AND 446 (AS IT RELATES TO CASTLEWOOD COUNTRY CLUB) ADOPTING WASTE DISCHARGE REQUIREMENTS TO PROHIBIT DISCHARGE TO THE ARROYO DE LA LAGUNA AND REQUIRING FILING OF A TECHNICAL REPORT OF INTENT TO TERMINATE DISCHARGES FROM, AND OPERATION OF, ITS PRIVATE TREATMENT AND DISPOSAL FACILITIES FOR:

CASTLEWOOD COUNTRY CLUB
PLEASANTON, ALAMEDA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, (hereinafter called the Board) finds that:

1. The Board, on July 13, 1953, adopted Resolution No. 136 prescribing requirements as to the nature of waste discharge from Castlewood Corporation's sewerage system into Arroyo de la Laguna, Alameda County.

2. The Board, on February 21, 1963, adopted Resolution No. 446 prescribing additional requirements as to the nature of all waste discharges to Alameda Creek or its tributaries above Niles, including the Castlewood Corporation (hereinafter called the discharger).

3. The discharger submitted a Report of Waste Discharge in May 1977 for revision of existing Waste Discharge Requirements.

4. Castlewood Country Club's sewage treatment and disposal facilities include:

   a. Comminutor
   b. Primary sedimentation
   c. Cavitation aeration
   d. Sludge digestion
   e. Three (3) evaporation-percolation ponds, of which one is considered to be temporary.

   Also a temporary sprinkley irrigation system which has been used at times for land disposal.

5. The discharger's sewage treatment and disposal facilities receive domestic sewage from approximately 125 residence plus a country club. Design flow for this facility is 35,000 gallons per day. Present average dry weather flow is approximately 44,000 gallons per day.

6. Any overflow of treated waste effluent into Arroyo de la Laguna from Castlewood's evaporation-percolation ponds would cause degradation of the quality of surface waters into Arroyo de la Laguna and Alameda Creek and of ground waters in the Niles Cone.

7. Beneficial uses of the waters of Arroyo de la Laguna and Alameda Creek are:

   a. Recharge of groundwaters that are sources of supply for domestic, agricultural and industrial uses;
   b. Bathing;
   c. Wading;
   d. Wildlife propagation and sustenance, and waterfowl and migratory bird habitat and resting;
   e. Fish propagation;
   f. fishing;
   g. Esthetic appeal.

   Overflow from Castlewood's ponds and subsequent direct discharge to Arroyo de la Laguna will adversely affect these beneficial uses.

8. During the past four (4) months the quantity of effluent and rainwater reaching the evaporation-percolation ponds has caused frequent threats of overflow, and an actual overflow to adjacent land areas on January 16 and 17, 1978. The volume of overflow was not sufficient to produce a direct discharge into Arroyo de la Laguna.

9. Subsequent to Regional Board staff inspections on December 15 and 19 (1977), Cleanup and Abatement Order No. 77-022 was issued on December 23, 1977, requiring the discharger to:

   a. Abate immediately the threat of wastewater overflow from its evaporation-percolation ponds.

   b. Initiate immediately a program to prevent overflow and the threat of over-flow from these evaporation-percolation ponds into Arroyo de la Laguna in the future.

10. The General Manager, Legal Counsel, and several Board members of Castlewood Country Club have stated that their intent is to terminate the use of their sewage treatment and disposal facilities as soon as possible. Castlewood has purchased interceptor capacity and is in the West Pleasanton Sewer Assessment District formed in 1967. However, discharges from Castlewood Country Club to the Dublin San Ramon Services District treatment facility should not be allowed until the Livermore-Amador Valley Wastewater Management Agency project becomes operational; except for the one-time discharge planned to increase the available freeboard of the ponds, subject to approval by the District.

11. The Board adopted a Water Quality Control Plan for the San Francisco Bay Basin, in April 1975, which prohibits direct discharge of wastewater during the portion of the year when no natural flow occurs in Alameda Creek above Niles. The Basin Plan also prohibits discharge "at any point at which the wastewater does not receive a minimum initial dilution of at least 10:1"; and "into any nontidal water or deadend slough or similiar confined water area or their immediate tributaries." This Order implements the waste discharge prohibitions stated above.

12. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

13. The discharger and interested agencies and persons have been notified of the Board's intent to revise requirements for the existing discharge and have been provided with the opportunity to submit their written views and recommendations.

14. This project involves the continued operation of a privately-owned sewage treatment and disposal facility with negligible or no expansion of use beyond that previously existing. Consequently, this project will not have a significant effect on the environment based upon the exemption provided in Section 15101, Title 14, California Administrative Code.

IT IS HEREBY ORDERED, that Castlewood Country Club, pursuant to the provisions of Division 7 of the California Water Code, and regulations adopted thereunder, and to the provisions of the Federal Water Pollution Control Act, as amended, and regulations and guidelines adopted thereunder, shall comply with the following:

A. Prohibitions

1. Overflow from the evaporation-percolation ponds is prohibited.

2. The discharge of wastewater from the discharger's treatment and disposal facilities to Arroyo de la Laguna is prohibited.

B. Interim Limitations

1. The discharger shall comply with the following interim specifications immediately:

a. The treatment or disposal of waste shall not create a nuisance as defined in Section 13050(m) of the California Water Code.

b. The discharge of waste shall not degrade the quality of any groundwater.

c. The discharge of waste shall not cause seepage to be present any place outside the percolation ponds.

d. The waste as discharged to the percolation ponds shall be at all times an adequately disinfected, oxidized wastewater and shall meet the following quality limits at all times:

5-day 20°C BOD	40.0 mg/l, maximum
Dissolved oxygen	2.0 mg/l, minimum
Dissolved sulfide	0.1 mg/l, maximum
Coliform Organisms	Median MPN shall not exceed 23 coliform organisms per 100 milliliters of sample. The median value will be determined from the bacteriological results of the last seven (7) analyses.

e. The percolation ponds shall be adequately protected from erosion and flooding having a predicted frequency of once in 100 years.

f. To prevent threat of overflows, a minimum freeboard of 2 feet shall be maintained in each evaporation-percolation pond at all times.

g. The discharger shall file with the Regional Board technical reports on self-monitoring work performed according to detailed specifications as directed by the Executive Officer.

h. The discharger shall permit the Regional Board or its authorized representative:

1. Entry upon premises in which an effluent source is located or in which any required records are kept.

2. Access to copy any records required to be kept under terms and conditions of this order.

3. Inspection of any monitoring equipment or method required by this order.

4. Sampling of any discharge.

i. The discharger shall maintain a copy of this Order at the site so as to be available at all times to personnel operating waste treatment and disposal facilities.

j. In the event of any change in control or ownership of land or waste discharge facilities presently owned or controlled by the discharger the discharger shall notify the succeeding owner or operator of the existance of this Order by a letter, a copy of which shall be forwarded to this Board.

C. Provisions

1. The requirements prescribed by this Order supersede the requirements prescribed by Resolution Nos. 136 and 446 adopted by the Board on July 13, 1953, and February 21, 1963, respectively. Resolution Nos. 136 and 446 (as it relates to Castlewood Country Club) are hereby rescinded.

2. Items numbers A.1. and A.2. of this Order shall be complied with immediately.

3. Castlewood Country Club is required to file a technical report, pursuant to Section 13267(b) of the California Water Code, by June 15, 1978, on its intent to terminate discharges from, and the operation of, its private treatment and disposal facilities to include at least the following:

a. A program to solve Castlewood Country Club's waste management problems which is acceptable to the Regional Board's Executive officer, and

b. A compliance time schedule for implementation of this program.

4. The discharger is required to file written reports satisfactory to the Executive Officer by the 15th of April and May 1978 on its progress towards compliance with this requirement for preparation of a technical report.

5. When satisfactory technical report is received from the discharger the Board will amend these requirements to provide a more detailed time schedule.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on March 21, 1978.

FRED H. DIERKER
Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM
FOR

The Castlewood Country Club

ORDER NO. 78-23

CONSISTS OF

PART A , (dated January 1978)

AND

PART B Date Ordered April 12, 1978

PART B

I. DESCRIPTION OF SAMPLING STATIONS

A. INFLUENT

Station	Description
A-1	At any point at which all waste tributary to the treatment plant is present.

B. EFFLUENT

Station	Description
E-0	At a point where the treated waste discharges to pond #1.
E-1	At any point in pond #1.
E-2	At any point in pond #2.
E-3	At any point in pond #3.

C. GROUNDWATER

Station	Description
G-1	At well number 3S/1E-29P2
G-2	At well number 3S/1E-32G2
G-3	At well number 3S/1E-32K4

In the event that the discharger chooses to monitor groundwater stations G-1 through G-3 by obtaining the data generated by the cooperative monitoring program of Zone 7 of the Alameda County Flood Control and Water Conservation District and the United States Geological Survey, the discharger will not be responsible for omissions or errors in data supplied by Zone 7 and USGS.

II. SCHEDULE OF SAMPLING AND ANALYSIS

A. The schedule of sampling and analysis shall be that given as Table I.

B. The results of the groundwater sampling will be reported annually by March 15 for the previous calendar year.

I, Fred H. Dierker, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No.

2. Does not include the following sections of Part A: C.3., C.4., C.5.a., D.1., D.3., E.4., F.3.c., F.3.e., Appendix A, Appendix C, Appendix E.

3. Has been ordered by the Executive Officer on the date below and becomes effective immediately.

4. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger and revisions will be ordered by the Executive Officer.

FRED H. DIERKER
Executive Officer

Attachment:
Table I
2 Maps

Date Ordered April 12, 1978

TABLE I

SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS

Sampling Station	A-1	E-1, 2, 3		E-0										
TYPE OF SAMPLE	Cont	G	C-8	G	C-8									
Flow Rate (mgd)	D													
BOD, 5-day, 20° C, or COD (mg/l & kg/day)		E	M		M									
Chlorine Residual & Dosage (mg/l & kg/day)														
Settleable Matter (ml/l-hr. & cu. ft./day)														
Total Suspended Matter (mg/l & kg/day)														
Oil & Grease (mg/l & kg/day)														
Coliform (Total) (MPN/100 ml) per req't		E			M									
Fish Toxicity, 96-hr. TL_{50} % Survival in undiluted waste														
Ammonia Nitrogen (mg/l & kg/day)														
Nitrate Nitrogen (mg/l & kg/day)														
Nitrite Nitrogen (mg/l & kg/day)														
Total Organic Nitrogen (mg/l & kg/day)														
Total Phosphate (mg/l & kg/day)														
Turbidity (Jackson Turbidity Units)														
pH (units)														
Dissolved Oxygen (mg/l and % Saturation)		E		M										
Temperature (°C)														
Apparent Color (color units)														
Secchi Disc (inches)														
Sulfides (if DO < 5.0 mg/l) Total & Dissolved (mg/l)		E		M										
Arsenic (mg/l & kg/day)														
Cadmium (mg/l & kg/day)														
Chromium, Total (mg/l & kg/day)														
Copper (mg/l & kg/day)														
Cyanide (mg/l & kg/day)														
Silver (mg/l & kg/day														
Lead (mg/l & kg/day)														

TABLE I (Continued)

SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS

SAMPLING STATION	E-1, 2, 3		G-1, 2, 3
TYPE OF SAMPLE	G	C-8	
Mercury (mg/l & Kg/day)			
Nickel (mg/l & kg/day)			
Zinc (mg/l & kg/day)			
Phenolic Sompounds (mg/l & kg/day)			
All Applicable Standard Observations			
Minimum Freeboard observed in each pond per week and the date & time of observation	cont		
Water Level In Well (feet)			2H
Dissolved Nitrate As "N" (mg/l)			2M
Dissolved Phosphorous (mg/l)			2/Y
Dissolved Chloride (mg/l)			2M
Dissolved Boron (mg/l)			2/Y
Dissolved Fluoride (mg/l)			2/Y
TOC (mg/l)			2/Y
Dissolved Calcium			2/Y
Dissolved Magnesium (mg/l)			2/Y
Dissolved Sodium (mg/l)			2/Y
Dissolved Potassium (mg/l)			2/Y
Dissolved Silica (mg/l)			2/Y
Dissolved Bicarbonate (mg/l)			2/Y
Dissolved Sulfate (mg/l)			2/Y
Electrical Conductivity (umho/cm)			2M

LEGEND FOR TABLE

TYPES OF SAMPLES

G = grab sample
C-8 = composite sample - 8-hour
C-X = composite sample - X hours (used when discharge does not continue for 24-hour period)
Cont = continuous sampling
DI = depth-integrated sample
BS = bottom sediment sample
O = observation

TYPES OF STATIONS

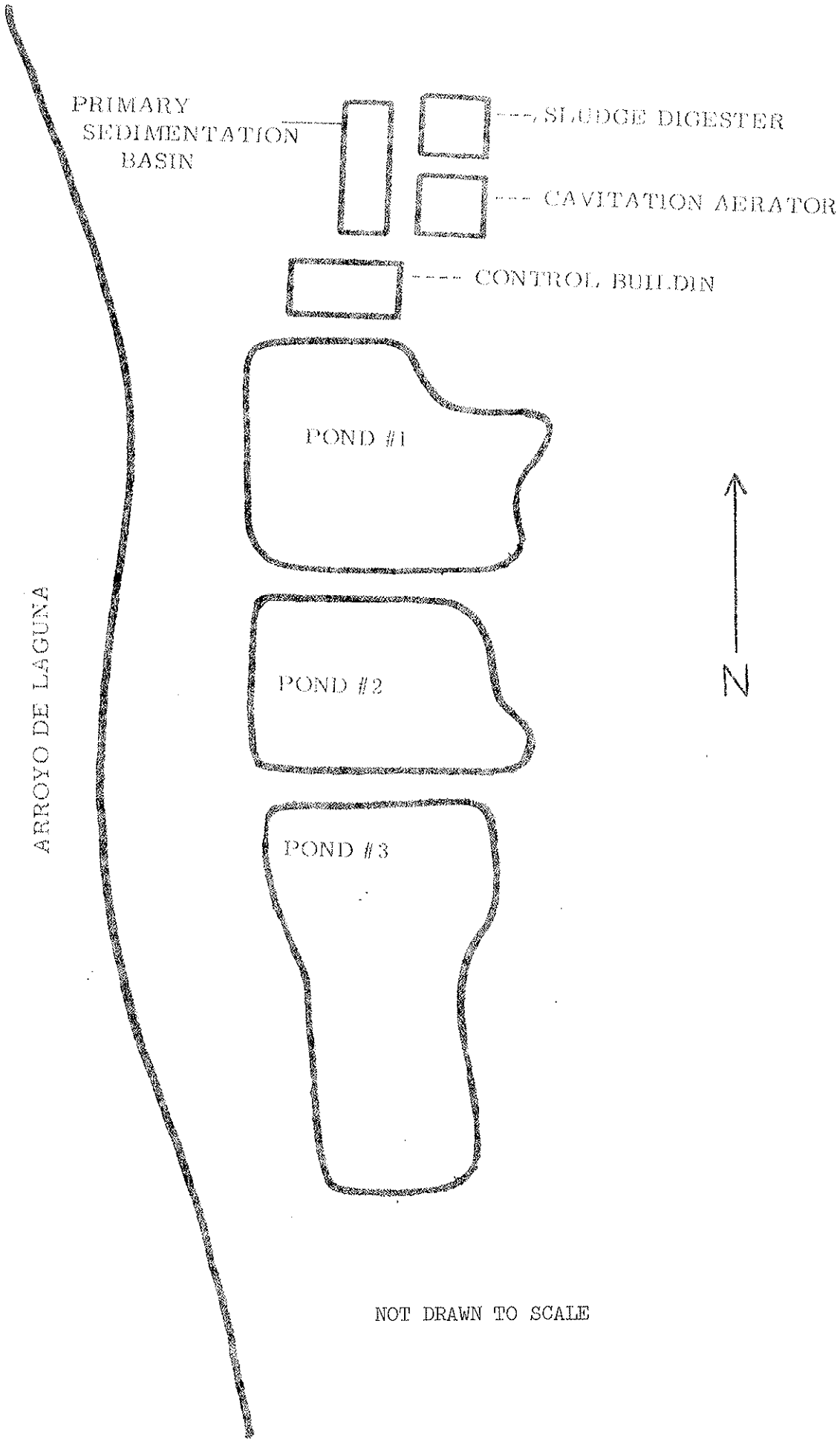
I = intake and/or water supply stations
A = treatment facility influent stations
E = waste effluent stations
C = receiving water stations
P = treatment facilities perimeter stations
L = basin and/or pond levee stations
B = bottom sediment stations
G = groundwater stations

FREQUENCY OF SAMPLING

E = each occurence
H = once each hour
D = once each day
W = once each week
M = once each month
Y = once each year

2/H = twice per hour
2/W = 2 days per week
5/W = 5 days per week
2/M = 2 days per month
2/Y = once in March and once in September
Q = quarterly, once in March, June, Sept. and December

2H = every 2 hours
2D = every 2 days
2W = every 2 weeks
2M = every 2 months
3M = every 3 months
Cont = continuous



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